

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P850353

Luminaire Tested: **GLAN-SB7D-827-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB7D-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57196 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

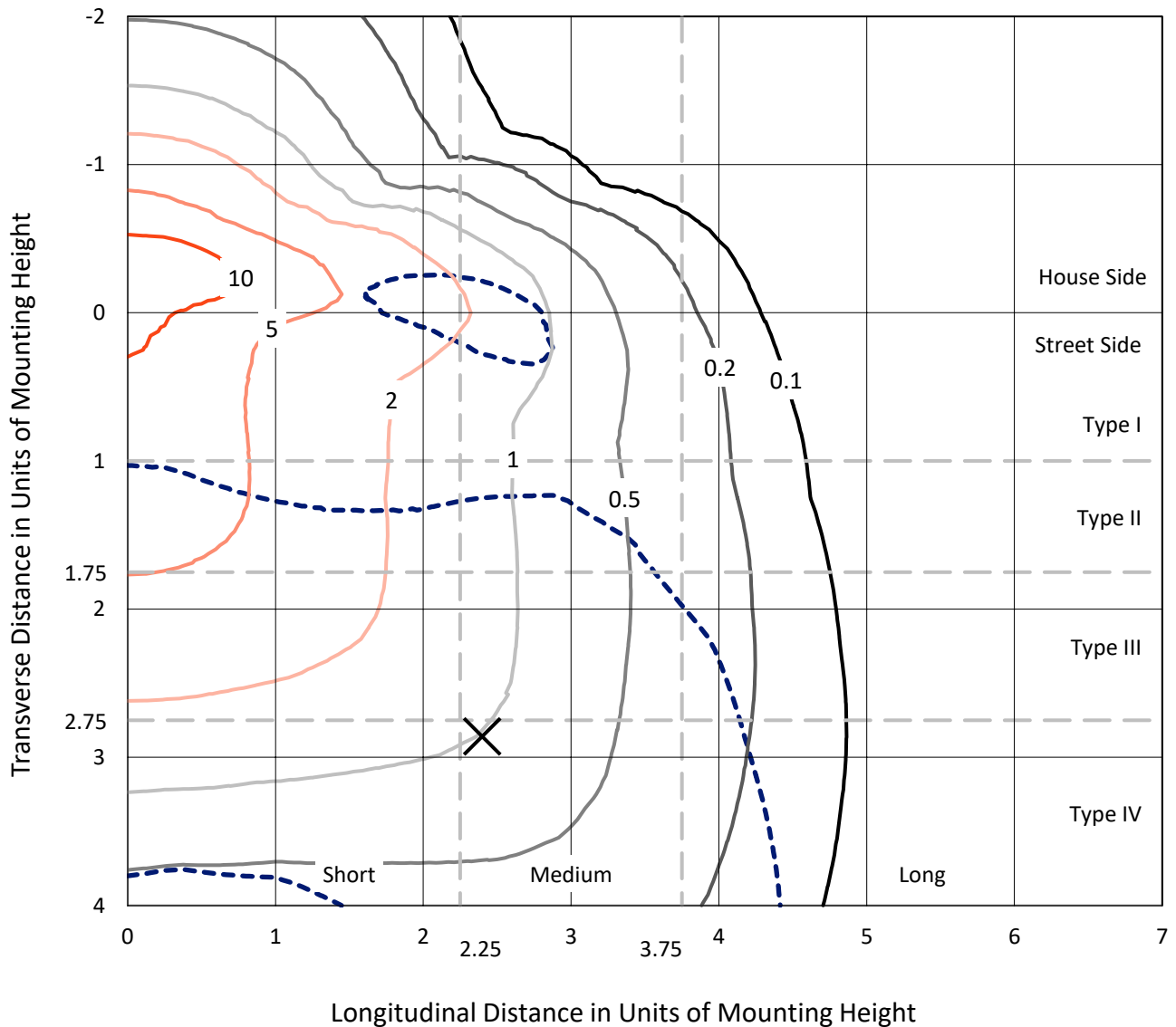
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

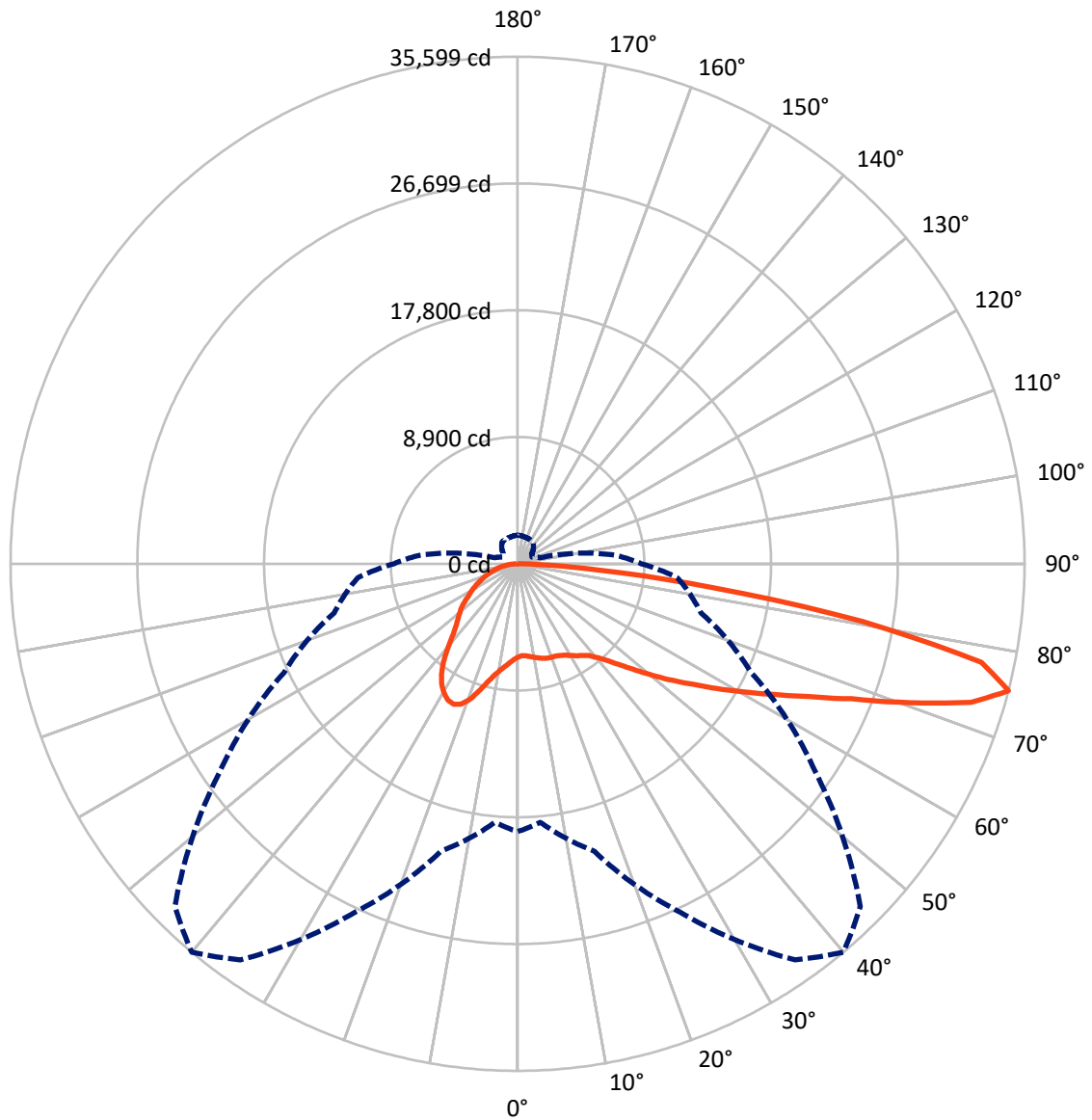
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17721.2	0.0	17721.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	39474.8	0.0	39474.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	57196.0	0.0	57196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.9	1.1
10°-20°	2192.0	3.8
20°-30°	4002.3	7.0
30°-40°	5676.4	9.9
40°-50°	7664.8	13.4
50°-60°	10311.3	18.0
60°-70°	13087.4	22.9
70°-80°	11877.6	20.8
80°-90°	1731.4	3.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	57196.0	100.0
0°-180°	57196.0	100.0

Coefficient of Utilization

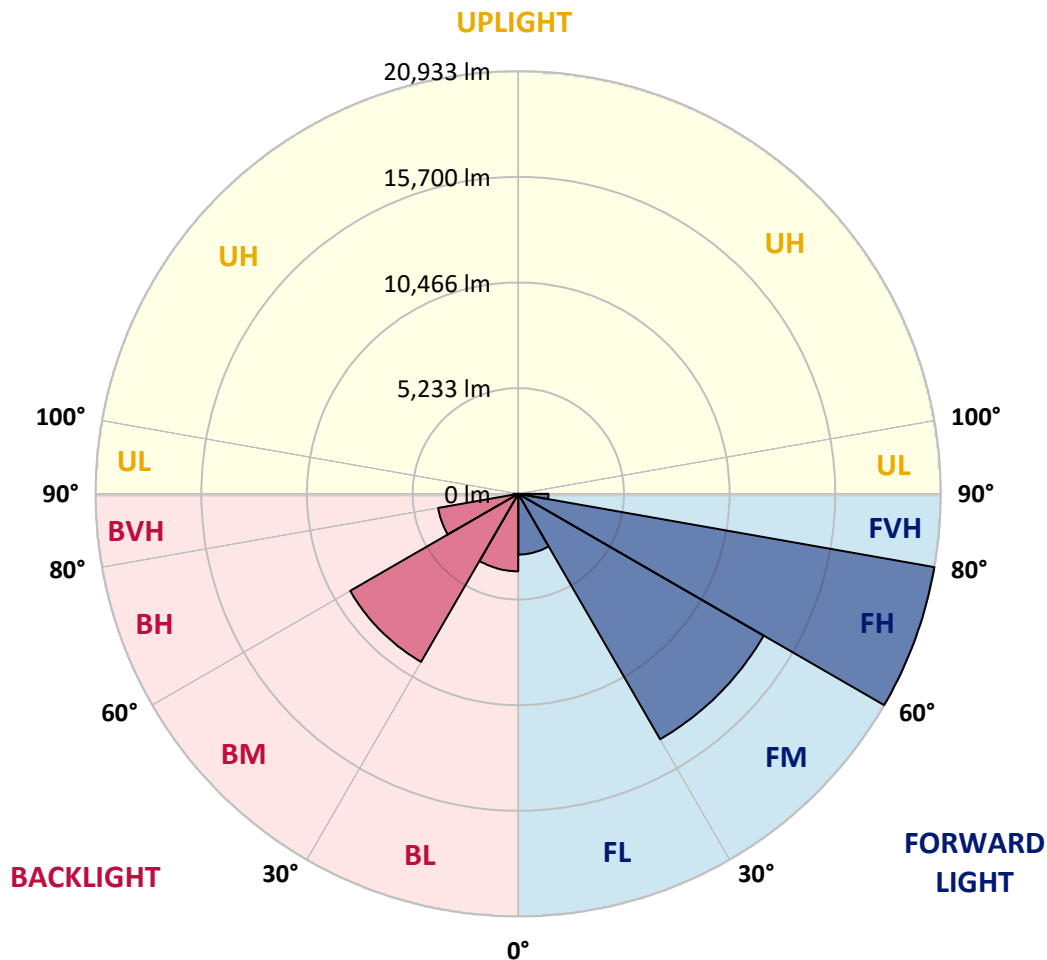


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3008.6	5.3			
FM (30°-60°)	14040.3	24.5			
FH (60°-80°)	20932.9	36.6			G5
FVH (80°-90°)	1493.0	2.6			G5
BL (0°-30°)	3838.6	6.7	B4/5000		
BM (30°-60°)	9612.2	16.8	B5		
BH (60°-80°)	4032.1	7.0	B4/5000		G4/5000
BVH (80°-90°)	238.4	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	6540.4	6540.4	6540.4	6540.4	6540.4	6540.4	6540.4	6540.4	6540.4	6540.4
2.5°	6440.3	6476.7	6467.6	6455.5	6455.5	6458.5	6455.5	6476.7	6498.0	6519.2
5°	6507.1	6543.5	6525.3	6510.1	6498.0	6494.9	6485.8	6482.8	6494.9	6522.2
7.5°	6637.5	6673.9	6646.6	6619.3	6595.0	6582.9	6570.8	6552.6	6543.5	6558.6
10°	6783.1	6819.5	6786.2	6737.6	6698.2	6683.0	6670.9	6652.7	6640.5	6649.6
12.5°	6928.7	6965.1	6919.6	6852.9	6801.3	6792.2	6777.1	6771.0	6768.0	6764.9
15°	7065.3	7095.6	7037.9	6959.1	6904.5	6889.3	6874.1	6883.2	6898.4	6916.6
17.5°	7171.4	7201.8	7116.8	7013.7	6962.1	6956.0	6946.9	6977.3	7019.7	7065.3
20°	7268.5	7298.8	7189.6	7050.1	6989.4	6989.4	6992.4	7056.2	7116.8	7183.6
22.5°	7405.0	7429.3	7295.8	7104.7	7016.7	7022.8	7047.0	7110.8	7186.6	7277.6
25°	7608.3	7626.5	7462.7	7207.8	7107.7	7125.9	7147.2	7177.5	7250.3	7356.5
27.5°	7935.9	7951.1	7735.7	7389.8	7238.2	7268.5	7298.8	7277.6	7311.0	7402.0
30°	8397.0	8406.1	8133.1	7675.0	7459.6	7474.8	7480.9	7392.9	7329.2	7402.0
32.5°	8943.0	8940.0	8615.4	8020.8	7711.4	7696.2	7644.7	7471.8	7323.1	7386.8
35°	9789.4	9756.1	9337.4	8506.2	7996.6	7902.5	7781.2	7559.7	7353.4	7371.6
37.5°	11190.9	11087.8	10508.4	9301.0	8421.3	8181.6	8002.6	7702.3	7420.2	7365.6
40°	12771.5	12641.0	12004.0	10390.1	9058.3	8673.1	8384.9	7905.6	7529.4	7392.9
42.5°	14646.2	14461.2	13775.6	11673.3	9865.3	9307.1	8873.3	8163.4	7690.2	7480.9
45°	16948.7	16703.0	15732.2	13120.3	10881.5	10138.3	9558.9	8554.7	7935.9	7650.7
47.5°	19275.5	19336.2	17955.9	14776.7	12101.0	11163.6	10417.4	9143.3	8293.9	7923.8
50°	21747.9	21790.3	20167.4	16612.0	13484.3	12322.5	11382.1	9801.6	8791.4	8312.1
52.5°	23677.2	23683.3	22175.6	18532.3	14925.3	13596.6	12422.6	10553.9	9367.8	8827.8
55°	24884.6	24869.4	23583.2	20349.4	16581.7	14934.4	13575.4	11409.4	10071.5	9434.5
57.5°	25761.3	25715.8	24553.9	21911.7	18347.2	16514.9	14879.8	12380.1	10902.8	10156.5
60°	26095.0	26067.7	25212.2	23261.6	20203.8	18262.3	16384.5	13466.1	11846.2	11008.9
62.5°	26222.4	26274.0	25858.4	24569.1	22190.8	20197.7	18037.8	14764.5	12908.0	11973.6
65°	26671.4	26765.4	26680.5	26280.1	24435.6	22463.8	20231.1	16308.6	14066.8	13008.1
67.5°	27560.2	27654.3	27690.7	28327.7	27178.0	25288.1	22967.4	18231.9	15422.8	14082.0
70°	27539.0	27511.7	28154.8	29956.8	30612.0	29198.4	26656.2	20598.1	17039.7	14973.8
72.5°	25066.6	24848.2	26368.0	29938.6	33469.7	33281.6	31161.1	23649.9	18435.2	15083.1
75°	18805.3	18222.8	20907.6	26980.8	33946.0	35599.3	34024.8	25542.9	18104.5	13326.6
77.5°	8042.1	7456.6	10620.6	19973.2	30381.5	33278.6	31397.7	22284.8	14452.1	8812.6
80°	2105.3	2102.3	3209.5	9055.3	20661.8	24575.2	21559.8	14391.4	8257.5	3148.9
82.5°	870.6	849.4	1180.1	3522.0	10095.8	13790.7	11254.7	6419.1	2982.0	852.4
85°	324.6	321.6	573.4	1216.5	3561.4	5688.0	4116.6	1641.2	743.2	415.6
87.5°	91.0	88.0	124.4	421.7	867.6	1316.6	703.8	270.0	209.3	163.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6540.4	0°	6540.4	6540.4	6540.4	6540.4	6540.4	6540.4	6540.4	6540.4	6540.4	6540.4
6552.6	2.5°	6561.7	6576.8	6604.1	6625.4	6652.7	6683.0	6725.5	6752.8	6780.1	6798.3
6567.7	5°	6589.0	6622.3	6692.1	6761.9	6843.8	6919.6	7007.6	7071.3	7122.9	7138.1
6622.3	7.5°	6649.6	6704.3	6822.6	6940.9	7071.3	7195.7	7323.1	7432.3	7520.3	7553.7
6719.4	10°	6755.8	6828.6	6995.5	7162.3	7335.2	7526.4	7690.2	7847.9	7972.3	8023.9
6834.7	12.5°	6889.3	6980.3	7198.7	7429.3	7668.9	7932.9	8145.2	8339.4	8494.1	8563.8
6995.5	15°	7062.2	7180.5	7459.6	7769.0	8120.9	8488.0	8758.0	8973.4	9146.3	9231.2
7162.3	17.5°	7250.3	7408.0	7759.9	8227.1	8730.7	9213.0	9528.5	9686.3	9865.3	9947.2
7317.0	20°	7432.3	7626.5	8130.0	8809.6	9480.0	9992.7	10247.5	10290.0	10302.1	10311.2
7462.7	22.5°	7620.4	7881.3	8594.2	9543.7	10262.7	10617.6	10654.0	10472.0	10217.2	10098.9
7605.2	25°	7826.7	8172.5	9200.9	10353.7	10936.1	10978.6	10699.5	10256.6	9774.3	9552.8
7720.5	27.5°	8026.9	8509.2	9929.0	11127.2	11421.5	11048.4	10447.7	9819.8	9237.3	9003.7
7802.4	30°	8227.1	8894.5	10732.9	11803.7	11643.0	10875.5	10050.3	9349.6	8764.1	8518.3
7875.2	32.5°	8430.4	9343.5	11658.1	12292.1	11603.5	10508.4	9555.8	8821.7	8306.0	8048.1
7938.9	35°	8660.9	9895.6	12534.8	12559.1	11339.6	9968.4	8903.6	8190.7	7741.7	7535.5
8014.8	37.5°	8961.3	10596.4	13308.4	12625.8	10878.5	9176.6	8093.6	7444.5	7074.4	6980.3
8127.0	40°	9334.4	11439.7	13899.9	12519.7	10195.9	8215.0	7207.8	6689.1	6479.8	6501.0
8278.7	42.5°	9819.8	12383.1	14315.6	12246.6	9246.4	7223.0	6431.2	6200.7	6300.8	6385.7
8506.2	45°	10450.7	13363.0	14573.4	11782.5	8172.5	6382.7	5973.2	6027.8	6103.6	6112.7
8873.3	47.5°	11257.7	14355.0	14743.3	11081.7	7077.4	5791.1	5681.9	5694.1	5678.9	5615.2
9422.4	50°	12264.8	15319.7	14895.0	10153.5	6146.1	5421.0	5275.4	5233.0	5023.6	4817.4
10153.5	52.5°	13411.5	16205.5	14958.7	9000.7	5421.0	5111.6	4875.0	4608.0	4216.7	4153.0
11072.6	55°	14685.7	17024.6	14794.9	7584.0	4811.3	4714.2	4356.2	4034.7	3992.2	3937.6
12283.0	57.5°	16208.5	17907.3	14461.2	6003.5	4186.4	4250.1	3901.2	3937.6	3861.8	3776.8
13839.3	60°	17874.0	18820.4	13875.7	4562.5	3540.2	3670.7	3782.9	3779.9	3758.6	3688.9
15480.5	62.5°	19372.6	19421.1	12722.9	3494.7	2972.9	3221.7	3528.1	3525.0	3506.8	3467.4
17194.4	65°	20264.4	19330.1	10799.6	2751.5	2505.8	2851.6	3182.2	3206.5	3209.5	3206.5
18483.7	67.5°	20106.7	18265.3	8160.4	2190.3	2120.5	2475.4	2839.4	2872.8	2897.1	2903.2
18647.5	70°	18322.9	15926.4	5320.9	1747.4	1777.7	2144.8	2514.9	2548.2	2569.5	2593.7
16181.2	72.5°	14282.2	11709.7	3045.7	1413.7	1477.4	1859.6	2193.3	2232.7	2244.9	2290.4
11260.7	75°	8703.4	6886.3	1644.2	1113.3	1213.4	1589.6	1874.8	1920.3	1941.5	1996.1
5530.3	77.5°	4137.8	2982.0	937.4	867.6	976.8	1298.4	1583.5	1635.1	1577.5	1607.8
1525.9	80°	1398.5	1107.3	591.6	661.3	746.3	1013.2	1268.0	1319.6	1198.3	1192.2
506.6	82.5°	488.4	449.0	376.2	439.9	482.3	725.0	958.6	1025.4	891.9	888.8
227.5	85°	191.1	182.0	209.3	239.7	288.2	445.9	631.0	664.4	549.1	442.9
66.7	87.5°	39.4	42.5	51.6	54.6	88.0	154.7	227.5	279.1	221.5	188.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
6540.4
6786.2
7144.1
7556.7
8026.9
8563.8
9225.2
9944.1
10335.5
10132.2
9586.2
9031.0
8545.6
8081.5
7581.0
7047.0
6573.8
6464.6
6173.4
5663.7
4844.7
4174.2
3946.7
3761.7
3664.6
3452.2
3206.5
2909.2
2605.9
2308.6
2002.2
1583.5
1180.1
846.4
436.8
172.9
0.0

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